8. ABOUT US

Driven by the passion for innovation, we at Dr Trust endeavour to provide our customers with the latest medical inventions with an objective to promote good health and wellness all around the world. All the medical devices and health monitors provided by Dr Trust are supported by accurate, latest and ground breaking technologies, innovated at our headquarters in NY, USA. All our products adhere to the most stringpart CE and TDA guidelines and are strongly recommended by doctors and health proctitioners. Our products are designed in the fumost exemplary ways to ensure that their occurroy and convenience are unrivalled. The ease of their use and operation makes them even more suitable for users of all oge groups.

Dr. Trust strives to enhance the quality of lifetsyle by providing with the most trusted and innovative health care and wellness products. Being a renowned global leader in health care products. Dr. Trust ensures that our technically efficient team works dynamically and finelessly to provide the best of the medical devices to our clients. The products that we have to affer are suitably designed for use at homes, laboratories and hospitals:

Our ground breaking solutions allow you to manitor your health in the easiest ways possible. In Joday's era when all of our lives are too hassled to handle, it becomes a bit difficult to pay attention to unhealth. But if has now become easier with the coming of the manitoring devices which can be conveniently used at homes and even on the gar.

We bring to you a variety of best self medical devices, trusted and used by Doctors, medical professionals and home users all over the world.



Dr Trust[®] Pulse Oximeter - 210





USER INSTRUCTIONS

Product Demo Video www.drtrustusa.com/210

Thank you for purchasing the Dr Trust Pulse Oximeter - 210.

Please read this user manual carefully to operate it with care and safety.

Dr Trust^o Dr Trust TABLE OF CONTENTS 1. INTRODUCTION 1.1 A Brief About Device INTRODUCTION The Dr Trust Pulse Oximeter - 210 is a small device used to monitor A Brief About Device the oxygen saturation of the blood. It shows whether your heart and 1.2 Intended Use lunas supply enough blood to meet your body's needs. This is based Display Parameter and Brief Device Description on digital technology and intended for noninvasive measurement of functional oxygen saturation of arterial hemoglobin (SpO2). It is 2. PRODUCT FEATURES quick and need-free test that measures the amount of oxygen in your 3. SAFETY GUIDANCE blood. Advanced DSP algorithm can minimize the influence of 3.1 Instructions for the Safe Operation and Use of the motion artifact and improve measurement accuracy of low perfusion. Pulse Oximeter This small and lightweight device can also measure Pulse Rate, Heart 3.2. Warnings Rate and Perfusion Index through finger. It can be used on children (weight more than 30kgs) and have anti-motion feature. 1.2 Intended Use INSTALLATION, SETUP AND OPERATION This product is suitable for use in the clinics, oxygen bars, sports 4.1 Description of the Front and Back Panel health monitoring center (using it before or after sports, not advised 4.2 Install battery using them during the movement), and community health care 4.3 Turning the Pulse Oximeter "ON" center, etc. 4.4 Read corresponding data from display screen 4.5 Operation 1.3 Display Parameters and Brief Device Description 4.6. Turn off the Ovimeter SpO2 (Functional Oxygen Saturation), is the amount of oxyhemoglobin expressed as a percentage of the Functioning MAINTENANCE Hemoglobin, Functioning Hemoglobin is capable of carrying oxygen 5.1 Cleaning and includes Oxygenated Hemoglobin (HbO2) and Deoxygenated Hemoalobin (Hb). 5.2 Disinfection PR (Pulse Rate), measured in Beats Per Minute (BPM), is the 5.3 Maintenance frequency of heart beats. 5.4 Troubleshooting PI (Perfusion Index) is the ratio of the pulsatile blood flow to the 5.5 Disposal non-pulsatile static blood in peripheral perfusion. Perfusion index is an indication of the pulse strength at the sensor site. SPECIFICATION 10 RR (Respiratory Rate), measured in Respirations Per Minute (RPM), 6.1 Physical Characteristics the act of breathing is controlled by the brain, which tells the body to 6.2 Classification breathe based on axygen and carbon diaxide levels in the blood. 6.3. Power Certain factors, such as exercise, drugs, and alcohol, can affect a 6.4. Environmental Factors person's breathing rate. An abnormally high or low respiratory rate 6.4. Electronics Parameters may indicate certain medical conditions such as bradypnea, apnea, or tachypnea. CUSTOMER SUPPORT 11 Plethysmogram, amount of light absorbed by the varying quantities of arterial blood changes with the pulse beats. This waveform is ABOUT US 12 named as Plethysmogram. This waveform and its variation is used for assigning signal integrity, physiological and arti-factual changes such as perfusion changes, dysrhythmia, motion artifact, and

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2. PRODUCT FEATURES

- Lightweight for carrying
 Easy-to-use.
- Color OLED display, simultaneous display for testing value and plethysmogram.
- and plethysmogram.

 Low Perfusion: 0.2%. (Advanced DSP algorithm can improve measurement accuracy, under the condition of low perfusion.
- Low Battery voltage indicator.
 Automatically switch off.
- Standard two AAA 1.5V alkaline batteries support more than 20 hours continuous work.
 Lanyard included for easy carrying

3. SAFETY GUIDANCE

3.1 Instructions for the Safe Operation and Use of the Pulse Oximeter

- Prolonged use or the patient's condition may require changing the sensor site periodically. Change sensor site and check skin integrity, circulatory status, and correct alignment every hour.
- SpO2 measurements may be adversely affected in the presence of high ambient light. Shield the sensor area (with a surgical towel, or direct sunlight, for example) if necessary.

The following reasons will cause interference. High-frequency electrosurgical.

- Placement of a sensor on an extremity with a blood pressure
- cuff arterial catheter or intravascular line.

 The patient has hypotension severe vasoconstriction severe
- anemia or hypothermia.
 The patient is in cardiac arrest or is in shock.
- Fingernail polish or false fingernails may cause inaccurate
- SpÖ2 readings.
 3.2. Warnings

WARNING: EXPLOSION HAZARD — Do not use the eximeter in a

environment.

flammable atmosphere where concentrations of flammable anesthetics or other materials may occur.

WARNING: Do not throw batteries in fire as this may causes them to explode.

WARNING: Do not use the pulse oximeter in an MRI or CT

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closed.

WARNING: This oximeter is not an apnea monitor, should not be used for arrhythmia analysis.

De Teust

CAUTION: Keep the operating environment free of -dust, vibrations, corrosive, or flammable materials, and extremes of temperature and humidity.

CAUTION: Do not operate the unit if it is dame or wet because of

condensation or spills. Avoid using the equipment immediately after moving it from a cold environment to a warm and humid location.

WARNING: Do not attempt to recharge normal dry-cell batteries.

they may leak. And may cause a fire or even explode.

CAUTION: Never use sharp or pointed objects to operate the front-

panel switches.

CAUTION: The battery must be taken out from the battery

compartment if the device will not be used for a long time.

CAUTION: The device shall only be used if the battery cover is

CAUTION: The battery must be proper disposed according to local regulation after their use.

regulation after their use.

NOTE: Inaccurate Respiration Rate (RR) measurements may be caused by: Improper placement or alignment, Low perfusion,

4. INSTALLATION, SETUP AND OPERATION

4.1 Description of the Front and Back Panel (as Figure 4.1.1 and Table 4.1.1)



Figure 4.1.1 Parts of front & back panel

Motion and During arrhythmia.

		Dr Trus
tem	Name	Description
1	Button	Start the working state and set parameters
2	OLED Panel	Display the SPO2/PR & Bar-graph, Plethysmogram, Pl.
3	Battery	2xAAA 1.5V Alkaline battery

Table 4.1.1

4.2 Install battery Installing 2 AAA batteries into battery

cassette in correct polarities and cover it (as Figure 4.2.1)

Compartment



Figure 4.2.1

WARNING: Do not attempt to recharge the alkaline batteries, as they may leak and may cause a fire or even explode.

4.3 Turning the Pulse Oximeter "ON"

Put your fingers into rubber hole of the oximeter (as much area as possible) with nail surface upward (as Figure 4.3.1), then release the clamp.

 Press the button, oximeter will go into the working state.

Keep your tested hand still during



Figure 4.3.1

4.4 Read corresponding data from display screen
Battery Indicator Perfusion Index



Figure 4.4.1 OLED display

Note: The main screen can rotate into four display directions after short press of the button

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98 Pl 10 65
98 Pl 10 65
0 8 Pl 10 65
0 8 Pl 10 65

Figure 4.4.2

Note: When battery power is at lowest level, the symbol " " "displays on OLED. It reminds users for replacement of battery.

4.5 Operation

%SpO2 cm PR borr

There are two ways to operate the button according to the pressing time:

Long-press is longer than half a second and short-press is shorter

than half a second.

Short press is used to select an item by moving a * to the line of this item. Long-press is used to change the item's value, status, open a

new page or make it take effect.
From the main screen, long-press on the button will make the oximeter display Settings Pages as shown in Figure 4.5.1 or Figure 4.5.2. Selecting "Page 1/2" or "Page 2/2" and long press will make

Settings	
Page 1/2	.
Alm	on
Веер	off
Demo	off
Reset	OK
Brightness	4
Exit	J

these two pages display alternately.

/ Settings)
Page 2/2	٠ ا
SpO2 Alm Hi	100
SpO2 Alm Lo	94
PR Alm Hi	130
PR Alm Lo	50
+/-	+
Exit	J

Figure 4.5.1 Figure 4.5.2

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e value		of	the	limit	set
page 2	2				
et Pulse	Веер	on	or	off	

on or off Enter Demo mode, long press to quit it

The lower limit of Spo2

The upper limit of PR

Description

Turn on or off the sounds when

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Reset ok ok blank Reset all settings as default value Briaht-4 1-5 Set the screen's brightness ness N/A N/A Return to the main screen or enter demo mode when it is selected as 'on' Items Default Options Description Spo2 Alm HI 50-100 The upper limit of Spo2

ir

on, off

on

off on, off

off on, off

> 94 50-100

130

PR Alm Lo	50	25-250	The lower limit of PR		
+/-	+	+,-	Increase or decrease the number		
Exit	N/A	N/A	Return to the main screen		
4.6 Turn off the Oximeter					

25-250

The oximeter will turn off automatically after 8 seconds after removing the finger out of the device.

5. MAINTENANCE

5.1 Cleaning

Switch "Off" the power and take out the batteries before cleaning. Cleaning exterior surface (OLED display screen included) of the unit with a dry and soft cloth. Use 75% density of medical alcohol to clean the surface and use dry fabric with little alcohol to avoid alcohol permeates into the device.

5.2 Disinfection

Items Default Ontions

Alm

Demo

Spo2 Alm Lo

PR Alm Hi

If multiple patients use the machine in the hospital, disinfection of it is important after every use.

Use 75% density of medical alcohol to clean the surface that contacting with the patient.

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CAUTION: Do not use strong solvent, For example, acetone. CALITION: Never use an obrasive such as steel wool or metal polish.

CAUTION: Do not allow entry of any liquid into the product, and do not immerse any parts of the device into any liquids. CAUTION: Avoid pouring liquids on the device while cleaning.

CAUTION: Do not remain any cleaning solution on the surface of 5.3 Maintenance

Replace the batteries timely when battery indication is low.

the device.

- Clean surface of the Pulse Oximeter before it is used in diganosis for patients. Remove the batteries from the battery cassette, if the Oximeter
- will not be operated for a long time.
- It is better to preserve the product in a place where ambient temperature is -20 - 55°C and humidity is 10%-95%. Regular inspection is needed to make sure that no obvious
 - damage existed to affect the safety and performance of the device No flammable substance overtops, or lower temperature and
- humidity existed in operation conditions. 5.4 Troubleshooting

Possible Reason Resolutions **Problems** Oxyhemoalobin 1. Finger is not plugged 1. Retry by plugging the or heart rate correctly finger again.

cannot be 2. Patient's perfusion is shown normally too low to be measured, just to make sure that

2. Try some more times. there is no problem in the product. Please go to a hospital timely for exact diagnosis 1. Retry by plugging the

Oxyhemoalobin 1. Finger might not be or heart rate is plugged deep enough. finger shown unstably 2. Finger is trembling. 2. Try not to move. Let the or patient's body is in patient keep calm. movement status might be inadequate.

installed incorrectly.

be damaged.

1 Power of batteries 1. Please replace batteries. 2. Batteries might be 2. Please reinstall the hatteries 3. The Oximeter might

The oximeter

the working

etrate

cannot go into

Dr Trust^a 1. Normal. 2. Replace the batteries.

when no signal is detected for 8 seconds. 2. Power quantity of the batteries is exhausted.	2. Replace me balleries.
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5.5 Disposal To avoid contaminating or infecting personnel, the environment or

The screen is suddenly 'off'.

other equipment, make sure you disinfect or decontaminate the device appropriately before disposing of it in accordance with your country's law for equipment disposal containing electrical and electronic parts.

1. The product is

6. SPECIFICATION

6.1 Physical Characteristics

Device Dimensions: 57mm (L) x 31mm (W) x 30.5mm (D) Weight -approx.: 54 g (including 2xAAA battery)

6.2 Classification

Anti-electric Shock Type: Internally powered equipment
Anti-electric Shock Degrees
Mode of operation: Continuous Operation
Enclosure Degree of ingress operation: IP22

Mip22 means shell of this product can withstand the water
drapping to the surface when the su

6.3. Power

horizontal surface

Internal: 2xAAA 1.5V alkaline battery
Power Consumption: 30 mA (Normal)

6.4. Environmental Factors

Operating Temperature: Storage Temperature: Relative Humidity: 5°C to 40°C -20°C to 55°C 15% to 85% non-condensing

PR (Pulse Rate)

6.5 Flortronics Parameters

PR (Pulse Rate)		25-250 bpm		
RR (Respiration Rate)		10-70 rpm		
	SpO2 (Oxygen saturation)		1%	
	PR (Pulse Rate)		1 bpm	
Resolution	PI (Perfusion Index)		0.1% (<10%) 1% (10% - 20%)	
	RR (Respiration Rate)		1 rpm	
Measure Accuracy:	(Oxygen saturation) 3		% (80% - 100%) % (70% - 80%) Jnspecified (<70%)	
Accuracy: Arms *	PR (Pulse Rate)	- 2	2 bpm	
	PI (Perfusion Index)		1%	

RR (Respiration Rate)

7. CUSTOMER SUPPORT

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35-100%

2 rpm